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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/532,740	03/22/2000	Sukekazu Aratani	503.38382X00	8245
20457 . 7590 10/20/2003 ANTONELLI, TERRY, STOUT & KRAUS, LLP			EXAMINER	
			ABDULSELAM, ABBAS I	
1300 NORTH SEVENTEENTH STREET SUITE 1800		ART UNIT	PAPER NUMBER	
ARLINGTON, VA 22209-9889			2674	./
			DATE MAILED: 10/20/2003	, 15

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/532,740	ARATANI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Abbas I Abdulselam	2674				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	i6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 21 J	<u>uly 2003</u> .					
2a)☐ This action is FINAL . 2b)☑ Thi	s action is non-final.					
3) Since this application is in condition for allowa closed in accordance with the practice under I Disposition of Claims						
4) Claim(s) 1-10 is/are pending in the application						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-10</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 						
_	• •					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language pro- 15)☐ Acknowledgment is made of a claim for domesti						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 12	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5 and 8-9 are rejected under 35 U.S.C. 103 as being unpatentable over Hirai et al. (USPN 6122021) in view of Brittell (USPN 5749646).

Regarding claims 1-2, Hirai teaches a liquid crystal display apparatus, the apparatus including a light source (11) and liquid crystal display element (12). See Fig 2. Hirai discloses the liquid crystal display element (1) comprising substrates (2, 5), a picture element electrode (3), an active element (4) and a liquid crystal solidified matrix composite material (7) interposed between the substrates (col. 24, lines 67-68, col. 25, lines 1-10 & Fig 1.). Hirai also teaches the liquid crystal display element in a transparent state, and shows the application of electric field to the electrode-substrate configuration. (col. 7, lines 39-43, col. 16, lines 52-55, lines 64-67, col.17, lines 1-7). Furthermore, Hirai illustrates the use of active matrix substrate with respect to multiple active elements that are connected to each of the picture element electrodes (col. 6, lines 62-67). However, Hirai does not disclose a lighting device that includes plurality of light sources. Brittell on the other hand discloses the use of plural number of light sources utilized with respect to light generating units (40a 40b). Brittell teaches one model of lamp that is used to form moving images, and shows that discrete images (129) are being cast with respect to motion

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effect members (128) and an object some distance away from the lamp. See col. 12, lines 24-44, Fig. 23A and Fig. 23B.

Therefore, it would have been obvious to one having skill in the art at the time the invention was made to modify Hirai's display system to adapt Brittell's use of plurality of light sources through light generating units (40a, 40b). One would have been motivated in view of the suggestion in Brittell that multiple light sources as configured in Fig. 23(A-B) equivalently satisfy the desired plurality of light sources. The use of multiple light sources helps the illumination of display devices as taught by Brittell. (See col. 4, lines 41-52).

Regarding claim 2, in addition to what has been discussed above, Brittell discloses a control circuit with switch, S performing several functions including the intensity regulation of any light produced. See col. 13, lines 47-49 and Fig. 25. It would have been obvious that the control circuit and the switch, S satisfy the desired control unit and alight adjustment unit respectively.

Regarding claim 3, Brittell discloses a circuit, which includes a fuse, F and a dimmer Rheostat, Re to regulate the intensity and the rate pulsation of any light, produced. See col. 13, lines 47-49. In addition, Brittell discloses a wide variety of electrical control switching used in connection with lamps including the use of any voltage rating. It would have been obvious to set a zero voltage.

Regarding claim 4, Brittell teaches the use of a variety of light sources including light emitting diode (LED). See col. 4, lines 10-17.

Regarding claim 5, Brittell teaches a lamp with a translucent member on its front including cup-shaped light blocking partition (50). See col. 6, line 60 and Fig. 3a.

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Regarding claims 8-9, Hirai teaches a display system driven in a 2-state display, and the response associated in several levels of the display. See col. 13, lines 59-67 and col. 14, lines 1-9.

Claims 6-7 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hirai et al. (USPN 6122021) in view of Brittell (USPN 5749646) and Bibayan (USPN 5572648).

Regarding claim 6, Hirai and Brittell have been discussed above. However both of them do not teach a determining circuit determining whether the image signal to be displayed is for a static image or a dynamic image. Bibayan on the other hand discloses a static tool palette display (20), dynamic tool palette display (22) and dynamic tool palette applet (24), which examines and determines whether to modify its tool display based on the context. See col. 4, lines 66-67, col. 5, lines 1-32 and Fig.(4-5).

Therefore, it would have been obvious to one having skill in the art at the time the invention was made to modify Hirai's liquid crystal display system to incorporate Bibayan's use of static and dynamic tool palettes. One would have been motivated in view of the suggestion in Bibayan that the dynamic palette applet (24) can be equivalently used to obtain the desired static vs. dynamic image determination. The use of dynamic tool palette applet helps modify a dynamic display system as taught by Bibayan.

Regarding claim 7, Brittell discloses a switch (84) allowing the user of a lamp to control over several options including positioning a switch in a way that more than one of the light sources are simultaneously illuminated. See col. 12, lines 54-64.

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Regarding claim 10, Bibayan teaches dynamic tool palette display (22) including a window application with a hardware function scanner (6). See col. 4, lines 25-33.

Conclusion

2. The prior art made of record and not relied upon is considered to applicant's disclosure.

The following arts are cited for further reference.

U.S. pat. No. 5,138,783 to Forsse

U.S. Pat. No. 6,606,636 to Okazaki

U.S. Pat. No. 6,254,531 to Higuchi et al.

3. Any inquiry concerning this communication or earlier communication from the examiner should be directed to **Abbas Abdulselam** whose telephone number is (703) 305-8591. The examiner can normally be reached on Monday through Friday (9:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Richard Hjerpe**, can be reached at (703) 305-4709.

Any response to this action should be mailed to:

Commissioner of patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314

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Hand delivered responses should be brought to Crystal Park II, Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology center 2600 customer Service office whose telephone number is (703) 306-0377.

Abbas Abdulselam

Examiner

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October 4, 2003

RICHARD HJERPE SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2500